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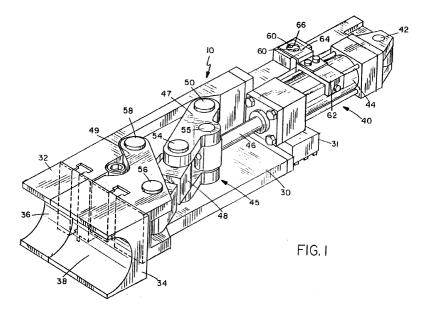
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(54) Adjustable clamp die for tube bending machine

(57) A clamp die apparatus (10) for co-operating with the bend die of a tube bending apparatus during tube bending has a support bolster adapted for adjustable mounting on a bend arm of a tube bending machine and a primary clamp die (32) rigidly mounted on the support bolster for clamping a portion of a tube against a bend die of the bend arm. A secondary clamp die (34) is movably mounted on the support bolster for movement between an extended position alongside the pri-

mary clamp die (32) and a retracted position spaced rearwardly from the primary clamp die (32). Each clamp die has a clamping surface for bearing against a portion of a tube (18) to be bent, and the clamping surfaces (36,38) of the primary and secondary clamp dies (32,34) are aligned to form a clamping surface of extended length when the secondary clamp die is in the extended position. The primary clamp die (32) alone forms a reduced length clamping surface when the secondary clamp die (34) is in the retracted position.





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Application Number EP 98 30 8783

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	Place of search	Date of completion of the search		Examiner	
	THE HAGUE	14 March 2000	Peeters, L		
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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

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